

SAW Components

Data Sheet B3681

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SAW ComponentsB3681Low-Loss Filter422,5 MHzData Sheet

Ceramic package QCC8B

Features

- Low-loss filter (RX) for Trunked Radio
- Usable bandwidth 5 MHz
- No matching required for operation at 50 Ω
- Package for Surface Mounted Technology (SMT)
- Hermetically sealed ceramic package

Terminals

• Gold-plated



typ. Dimensions in mm, approx. weight 0,07 g

Pin configuration

1Input2Input ground5Output6Output ground3, 7Ground4, 8Case ground



Туре	Ordering code	Marking and Package according to	Packing according to
B3681	B39421-B3681-Z810	C61157-A7-A46	F61074-V8037-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T _A	-30 / +75	°C	
Storage temperature range	T _{stg}	-40 / +85	°C	
DC voltage	V _{DC}	0	V	
Source power	Ps	10	dBm	source impedance 50 Ω

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SAW Components		B3681
Low-Loss Filter		422,5 MHz
Data Sheet Characteristics		
Operating temperature range: Terminating source impedance: Terminating load impedance:	$T_{A} = +15 \dots +35 \ ^{\circ}C$ $Z_{S} = 50 \Omega$ $Z_{L} = 50 \Omega$	

	[min.	typ.	max.	
Nominal frequency	f _N	_	422,5	_	MHz
Maximum insertion attenuation	α_{max}				
420,0 MHz 425,0 MHz		—	3,0	3,5	dB
Amplitude ripple (p-p)	Δα				
420,0 MHz 425,0 MHz		—	0,7	1,2	dB
Return loss (Input and Output)					
420,0 MHz 425,0 MHz		12,0	14,0	—	dB
VSWR					
420,0 MHz 425,0 MHz		—	1,5:1	2,0:1	
Absolute attenuation	α_{abs}				
0,3 MHz 335,0 MHz		40	60	_	dB
335,0 MHz 410,0 MHz		25	45		dB
410,0 MHz 415,0 MHz		25	35	_	dB
442,0 MHz 510,0 MHz		20	45	_	dB
510,0 MHz 1105,0 MHz		40	45	_	dB
1105,0 MHz 1800,0 MHz		20	25	_	dB
Temperature coefficient of frequency	TC _f		- 36		ppm/k

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Characteristics

Operating temperature range:	<i>T</i> _A = -30 +75 °C
Terminating source impedance:	$Z_{\rm S} = 50 \ \Omega$
Terminating load impedance:	$Z_{\rm L} = 50 \ \Omega$

		min.	typ.	max.	
Nominal frequency	f _N	_	422,5	_	MHz
Maximum insertion attenuation	α_{max}				
420,0 MHz 425,0 MHz		—	3,0	3,5	dB
Amplitude ripple (p-p)	Δα				
420,0 MHz 425,0 MHz		—	0,8	2,0	dB
Return loss (Input and Output)					
420,0 MHz 425,0 MHz		12,0	14,0	—	dB
VSWR					
420,0 MHz 425,0 MHz		—	1,5:1	2,0:1	
Absolute attenuation	α_{abs}				
0,3 MHz 335,0 MHz		40	60		dB
335,0 MHz 410,0 MHz		25	45		dB
410,0 MHz 415,0 MHz		25	35		dB
442,0 MHz 510,0 MHz		20	45		dB
510,0 MHz 1105,0 MHz		40	45	_	dB
1105,0 MHz 1800,0 MHz		20	25	—	dB
Temperature coefficient of frequency	TC _f		- 36		ppm/K

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B3681 422,5 MHz

Data Sheet Transfer function



Transfer function (pass band; +15 °C ... +35 °C)



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